CONFIDENTIAL INFORMATION – SUBJECT TO PROTECTIVE ORDER IN WT DOCKET NO. 15-262 BEFORE THE FEDERAL COMMUNICATIONS COMMISSION

[REDACTED VERSION – AVAILABLE FOR PUBLIC INSPECTION]

July 19, 2016

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

> **Re:**   *Applications of Sprint Corporation and Cellco Partnerships d/b/a Verizon Wireless for Consent to Assignment Licenses (WT Docket No. 16-175)*

Dear Ms. Dortch:

On behalf of its wholly-owned subsidiaries, Sprint Corporation ("Sprint"), hereby resubmits data it provided on June 20, 2016, which was in response to the June 6, 2016 Information Request from the Federal Communications Commission ("FCC") in the above-referenced proceeding.[1] This instant filing replaces the data provided for Information Request item 2.

Enclosed, please find:

- For Information Request item 2, a password protected CD labeled Confidential Information Subject to Protective Order in WT Docket No. 16-175 Before the Federal Communications Commission, Sprint Corporation Response to Information Request Question 2, June 6, 2016, containing ESRI shapefiles representing Sprint's geographic coverage in the three CMAs which were requested;

Because this submission contains electronic material that is Confidential, Sprint is filing this cover letter and its enclosures pursuant to the procedures established in the Protective Order that was issued on June 6, 2016 in this docket.[2] This data submission is being delivered by hand to the Secretary's Office, and two additional copies are being delivered to Scott Patrick of the Wireless Telecommunications Bureau. Sprint also is filing a copy of this cover letter for public

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[1]   Letter from Jon Wilkins, Chief, Wireless Telecommunications Bureau, FCC, to James B. Goldstein, Sprint Corporation, WT Docket No. 16-175 (June 6, 2016) ("Information Request").

[2]   In the Matter of Applications of Sprint Corporation and Cellco Partnership d/b/a Verizon Wireless for Consent to Assign Licenses, Protective Order, June 6, 2016.

inspection in the FCC's Electronic Comment Filing System. If you have any questions, please contact the undersigned.

Respectfully submitted,

/s/ James B. Goldstein_____
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cc: Scott Patrick
        Kate Matraves
        Jim Bird

RESPONSES

Question 2. Provide polygons in an ESRI shapefile format representing geographic coverage for Sprint in Toledo, Ohio, Ohio 1 – Williams, and Ohio 2 - Sandusky, including each mobile broadband network technology (e.g., CDMA, EV-DO, EV-DO Rev. A, GSM, EDGE, UMTS, HSPA, HSPA+, LTE) deployed in each frequency band (e.g., Lower 700 MHz, Cellular, SMR, AWS-1, PCS, BRS/EBS). Provide all assumptions, methodology (e.g., propagation, projection, field measurements), calculations (including link budgets), tools (e.g., predictive and field measurements) and data (e.g., terrain, morphology, buildings) used in the production of the polygons, and identify the propagation tool used, the propagation model used within that tool, including but not limited to, the coefficients used in the model and any additions, corrections or modifications made to the model.

For Information Request item 2 a password protected CD labeled Confidential Information Subject to Protective Order in WT Docket No. 16-175 Before the Federal Communications Commission, Sprint Corporation Response to Information Request Questions 2, June 6, 2016 containing ESRI shapefiles representing Sprint's geographic coverage in the three CMAs which were requested.

All polygons were generated by InfoVista's Mentum PlaNet propagation modeling tool, which is utilized by all Sprint Markets in its ordinary course of its business to create all technology/spectrum signal level files (RSSI & RSRP values).

The various criteria inputs to the propagation tool include; cell site location, antenna height, antenna downtilt, antenna azimuth (direction antenna is pointed in degrees), antenna pattern (shape of respective antenna propagation characteristics), site/sector signal power, topographical and terrain factors, clutter (the physical land use/vegetation obstructions) which impact the propagation of radio waves aside from the area topography.

Sprint customizes the InfoVista Mentum PlaNet propagation tool primarily through the use of a library of area-specific "propagation models." These leverage current geographic terrain, clutter information and drive test data inputs. Market specific Geodata is also used in this process. Sprint uses the following signal strength measurements for its own coverage depiction:

[Begin Confidential Information]

[End Confidential Information]